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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/044,171	10/22/2001	Elizabeth Cates	5235	1594
75	11/22/2005		EXAMINER	
Milliken & Company			SHEWAREGED, BETELHEM	
P.O. Box 1927 Spartanburg, SC 29304			ART UNIT	PAPER NUMBER
			1774 DATE MAILED: 11/22/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/044,171	CATES ET AL.				
Office Action Summary	Examiner	Art Unit				
	Betelhem Shewareged	1774				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 14 Se	eptember 2005.					
2a) ☐ This action is FINAL . 2b) ☒ This	action is non-final.					
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
 4) Claim(s) 1-28 is/are pending in the application. 4a) Of the above claim(s) 4-22 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-3 and 23-28 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the orange Replacement drawing sheet(s) including the correction of the orange representation is objected to by the Examiner 11) The oath or declaration is objected to by the Examiner 9)	epted or b) objected to by the E drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	have been received. have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No d in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 9/14/2005.	4) Interview Summary (Paper No(s)/Mail Dai 5) Notice of Informal Pa 6) Other:					

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DETAILED ACTION

Applicant's response filed on 09/14/2005 has been fully considered. The Double
Patenting rejection has been withdrawn in view of Applicant's submission of Terminal
Disclaimer.

2. Claims 1-28 are pending. (NOTE: Claims 4-22 are still withdrawn from consideration as non-elected invention).

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 4. Claims 1, 27 and 28 are rejected under 35 U.S.C. 102(a) as being anticipated by Mishima (US 6,183,851 B1).

Mishima discloses an ink jet image recording medium comprises a support and a coating layer provided on the support (abstract). The coating layer comprises a polysaccharide binder (equivalent to the claimed sorbant) (col. 9, line 12), a metal salt (equivalent to the claimed cationic material) (col. 13, line 32), and silicone oil (equivalent to the claimed repellant) (col. 16, line 7). The amount of the polysaccharide resin overlaps with the claimed range (col. 10, line 9). The support can be cloth (col. 17, line 12).

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Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 2, 3 and 23-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mishima (US 6,183,851 B1), as applied to claims 1, 27 and 28, above, in further view of Kawasaki et al. (US 6,338,891 B1).

Mishima does not teach the use of fluorocarbon resin in place of the silicone oil.

Kawasaki teaches an ink jet recording sheet comprising a support and an ink receiving layer on the support (abstract). The ink receiving layer comprises repellents such as fluorocarbon resin, silicone resin or alkyl ketene dimmer in an amount of 0.05-10% by weight (col. 6, lines 42-57).

Mishima and Kawasaki are analogous art because they are from the same field of endeavor, that is the ink jet recording art. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to use of fluorocarbon resin instead of the silicone oil since the examiner takes Official Notice of the equivalence of fluorocarbon resin and silicone oil for their use in the ink jet recording art and selection of any of these known equivalents to make the ink receiving layer would be within the level of ordinary skill in the art.

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Conclusion

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Betelhem Shewareged whose telephone number is 571-272-1529. The examiner can normally be reached on Mon.-Fri. 8:00AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye can be reached on 571-272-3186. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

B.S. November 18, 2005.

> ETELHEM SHEWAREGE PRIMARY EXAMINER